

Application Serial No. 09/681,622
Attorney's Docket No.: 06666-033002

Amendment to the Claims:

This listing of claims replaces all prior versions, and listings, of claims in the application:

1. (Currently amended) A method, comprising:
applying a focused [[an]] input optical beam to an array of reflector elements;
reflecting said input optical beam through said array to form an output optical beam at a focused location; and
controlling said reflector elements using multiple digital bits, such that each change of each single digital bit changes the focused location where an output position of said output optical beam is directed.
2. (Previously presented) A method as in claim 1, wherein said array of reflector elements includes a plurality of moving mirrors, each of which deflects said input optical beam according to said digital bits.
3. (Original) A method as in claim 2, wherein at least some of said plurality of moving mirrors are each moved by a different amount than others of said moving mirrors.

Application Serial No. 09/681,622
Attorney's Docket No.: 06666-033002

4. (Withdrawn) A method as in claim 2, wherein said plurality of moving mirrors are each moved by the same amount.

5. (Original) A method as in claim 2 wherein each of said plurality of moving mirrors has a substantially different size.

6. (Withdrawn) A method as in claim 1, wherein said mirror array includes an array of movable mirrors, and at least one unmovable mirror, positioned in a location to reflect light from one of said movable mirrors to another of said movable mirrors.

7. (Withdrawn) A method as in claim 6, wherein said unmovable mirror is substantially flat.

8. (Withdrawn) A method as in claim 6, wherein said unmovable mirror is substantially curved.

9. (Withdrawn) A method as in claim 6, wherein said unmovable mirror includes a plurality of separated parts, collectively defining a curved profile, but each of said separated parts being substantially flat.

Application Serial No. 09/681,622
Attorney's Docket No.: 06666-033002

10. (Withdrawn) A method as in claim 6, wherein said unmovable mirror includes a plurality of angled surfaces.

11. (Withdrawn) A method as in claim 6, wherein said angled surfaces are Fresnel surfaces.

12. (Withdrawn) A method as in claim 4, further comprising changing an angle of attack for each of a plurality of reflections.

13. (Withdrawn) A method as in claim 1, wherein said mirror array includes a first sub array of movable mirrors extending along a first specified shaped surface, and a second sub array of movable mirrors extending along a second specified shaped surface.

14. (Withdrawn) A method as in claim 13, wherein said first and second shaped surfaces are substantially flat.

15. (Withdrawn) A method as in claim 13, wherein said first and second specified shaped surfaces are substantially curved.

Application Serial No. 09/681,622
Attorney's Docket No.:06666-033002

16. (Withdrawn) A method as in claim 15, wherein each of said mirrors are substantially flat.

17. (Withdrawn) A method as in claim 13, wherein each of said reflector elements includes a reflective membrane which is moved between first and second positions.

18. (Withdrawn) A method as in claim 13, wherein each of said reflector elements includes first and second parts which are movable relative to one another.

19. (Currently amended) An optical device comprising:
an array of movable reflector elements which are separated from one another, and arranged such that for at least a plurality of said reflector elements, each of said plurality of reflector elements reflect toward another of said plurality of reflector elements ; and

a controller for said array of reflector elements, said controller operating based on a plurality of digital bits which ~~each operate to~~ change a position of ~~said array of~~ a reflector element ~~[[s]] to produce thereby change a location of~~ an output beam ~~[[at]] to a [[position]] location that is~~ based on said digital bits.

Application Serial No. 09/681,622
Attorney's Docket No.: 06666-033002

20. (Withdrawn) A device as in claim 19, wherein each of said reflector elements comprises a movable, reflective membrane.

21. (Withdrawn) A device as in claim 19, wherein each of said reflector elements comprises first and second parts, which reflect light from a first location when touching one another, and reflect light from a second location when not touching one another, and an element for moving said first and second parts relative to one another.

21. (Withdrawn) A device as in claim 19, further comprising a plane mirror, which reflects between different ones of said reflector elements.

22. (Withdrawn) A device as in claim 21, wherein said plane mirror is substantially flat.

23. (Withdrawn) A device as in claim 21, wherein said plane mirror is formed along a curved area.

Application Serial No. 09/681,622
Attorney's Docket No.:06666-033002

24. (Withdrawn) A device as in claim 23, wherein said plane mirror is formed of a plurality of different mirrored elements, each of which is substantially flat.

25. (Withdrawn) A device as in claim 19, wherein each of said reflector elements are movable by different amounts.

26. (Original) A device as in claim 19, wherein each of said reflector elements are movable by different amounts.

27. (Withdrawn) A device as in claim 19, wherein each of said plurality of moving mirrors has a substantially different size.

28. (Previously presented) A device as in claim 19, wherein each of said plurality of movable reflector element has a substantially different size.

29. (Currently amended) An assembly comprising:
an optical device comprising an array of movable reflector elements; and
a controller for said array of reflector elements, said controller operating based on a plurality of digital bits which

Application Serial No. 09/681,622
Attorney's Docket No.: 06666-033002

operate to change a position of said array of reflector elements to produce an output beam at a position based on said digital bits;

a device wherein each of said plurality of ~~moving mirrors~~ reflector elements has a substantially different size;

a series of said movable mirrors; and

at least a plurality of said movable mirrors are twice as large as a movable mirror prior to it in said series.

Kindly add the following new claims:

30. (Newly added) A method as in claim 1, wherein said applying a focused optical beam comprises applying a pencil-like beam from a laser device.

31. (Newly added) A device as in claim 19, further comprising a laser, producing a pencil-like focused output beam, directed towards one of said reflector elements, and thereafter reflected to others of said reflector elements, to produce a pencil-like output beam at said location.